

Motorized Small Boring Unit (SBU-M)

Technical Description

The Motorized SBU is the optimal choice for longer utility installations (over 150 m) or for crossings with specific line and grade requirements. The SBU-M is a manned-entry, hard rock boring machine for use with a standard Auger Boring Machine (ABM) or pipe jacking unit. The SBU-M uses disc cutters to excavate rock, while a small invert auger or vacuum system removes spoils from the face. The SBU-M is bolted to the lead casing prior to excavation for shorter starter and exit shafts. An in-shield motor provides torque to the drive train, while forward thrust is derived through the casing.

The Most Accurate Tunneling

The SBU-M can be steered throughout the drive from an operator's console inside the rear shield. Articulation cylinders and manually adjustable stabilizer pads allow for control of line and grade. Accuracy is continuously monitored using a laser targeting system.

A Cost Effective Solution

The SBU-M offers more efficient excavation than typical carbide bit or roller cone cutting heads. Most carbide cutting tools tend to break off in rock above 75 MPa UCS. The SBU-M uses disc cutters to chip away hard rock from 25 to over 175 MPa UCS.



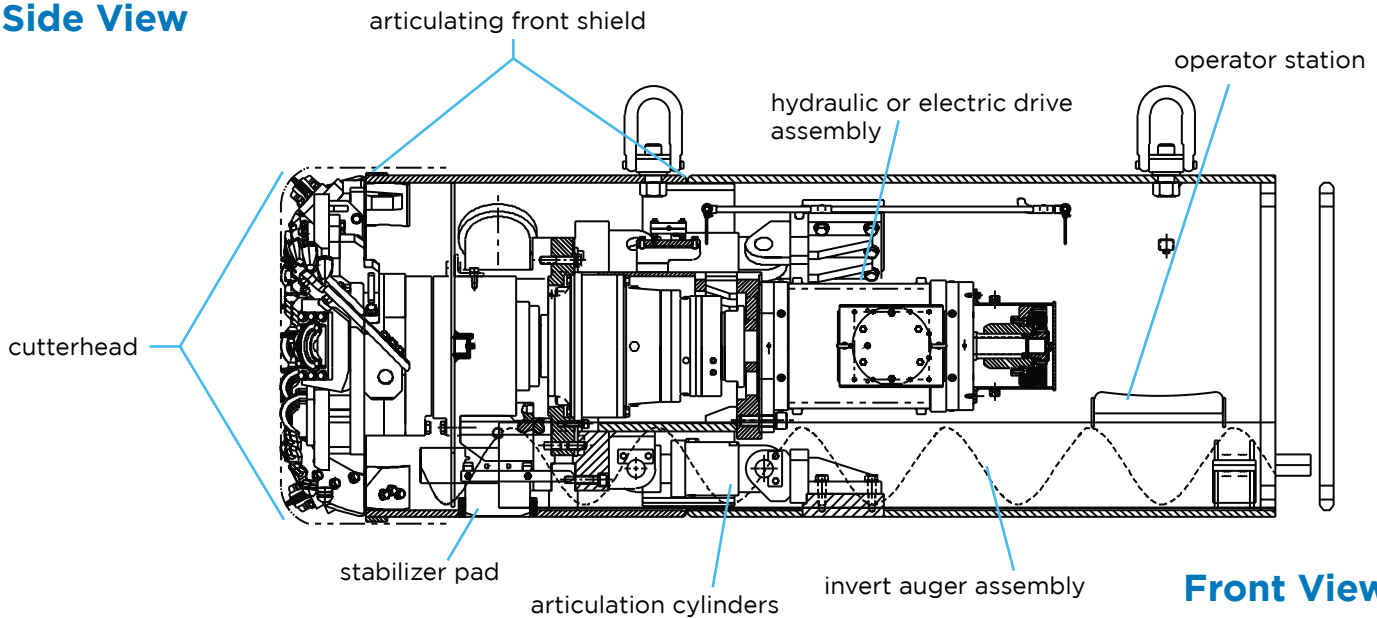
SBU-M APPLICATIONS

- Pipe jacking
- Line- and grade-sensitive rock crossings
- Replacement for carbide bit and roller cone cutterheads
- Bore lengths over 150 m

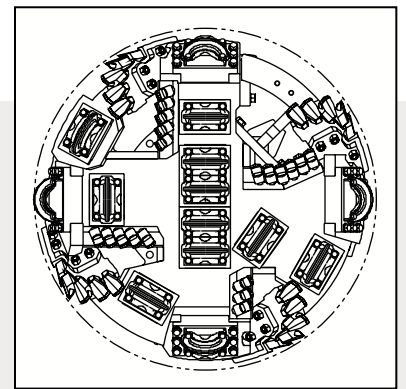
AVAILABLE FOR PURCHASE OR LEASE



Side View



Front View



SPECIFICATIONS

MACHINE DIAMETERS	1.2 to 2.0 m
ROCK STRENGTHS	25 to over 175 MPa UCS
GROUND CONDITIONS	Medium to hard rock, or mixed ground
CUTTERHEADS	Both hard rock and mixed ground cutterheads are available
CUTTERS	All machines can be equipped with 165, 241, 292, or 356 mm (6.5, 9.5, 11.5, 14") discs

NOTE: Hydraulic and electric motors are available. Contact us for more information on hydraulic models.

SBU-M 48

Bore Diameter	1,270 mm
Approx. Weight	10 metric tons
Approx. Length	3.7 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 60

Bore Diameter	1,570 mm
Approx. Weight	16 metric tons
Approx. Length	4.3 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 72

Bore Diameter	1,880 mm
Approx. Weight	17 metric tons
Approx. Length	4.6 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 54

Bore Diameter	1,420 mm
Approx. Weight	13 metric tons
Approx. Length	3.7 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 66

Bore Diameter	1,730 mm
Approx. Weight	16 metric tons
Approx. Length	4.3 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 78

Bore Diameter	2,030 mm
Approx. Weight	17 metric tons
Approx. Length	4.6 m
Power Required	440+/- V; 3 Phase; 50/60 Hz

CORPORATE HEADQUARTERS

The Robbins Company
29100 Hall Street
Solon, Ohio 44139 USA

Phone: +1 440 248 3303
Fax: +1 440 248 1702
Email: sbusales@robbinstbm.com



Visit www.TheRobbinsCompany.com for more information.

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